

## CLAIMS

We claim:

1 1. A computer system for creating, editing an on-line publication, comprising:  
2 at least one information source describing an unstructured article from a digital news  
3 feed;  
4 a processor coupled to the information sources and including a memory containing stored  
5 program instructions for storing images and text in the digital news feed;  
6 a data bus coupling the processor to a storage device and an input/output device;  
7 the storage device containing files relating to XSL style sheet creation; XML article files;  
8 image files; and HTML files; and  
9 data transmission means for transmitting an ActiveNews Article as an interpretive, object  
10 oriented program whereby XML article files are combined with XSL style sheets to generate an  
11 HTML file as an ActiveNews Article representing a dynamic visualization of the unstructured  
12 article from the digital news feed

1 2. The system of Claim 1 further comprising:  
2 a text-processing module for analyzing stored text for occurrences of names in the  
3 digital news feed.

1 3. The system of Claim 1 further comprising:  
2 means for linking names in the stored text to images stored in the memory.

2 4. The system of Claim 1 further comprising:  
3 means for determining stored images to display with stored text in an ActiveNews  
4 Article.

1 5. The system of Claim 1 further comprising:  
2 means for converting stored text and images into an XML document.

1 6. The system of Claim 1 further comprising:  
2 means for creating XSL style sheets related to the XML document.

1 7. The system of Claim 1 further comprising:  
2 means for constructing an HTML document as an ActiveNews Article from the stored  
3 images and text after transformation into an XML document with XSL style sheets.

1 8. The system of Claim 1 further comprising:  
2 an XML enabler for combining XML files with XSL style sheets.

1 9. The system of Claim 1 wherein the interpretive, object-oriented program is Java.

1 10. The system of Claim 1 wherein the ActiveNews Article is a Java applet.

1 11. In a computer system for creating and editing an on-line publication including at least one  
2 information source; a process controller coupled to the information sources and including a  
3 memory containing stored program instructions; a storage disk and an I/O device coupled to the  
4 controller, a method of transforming an unstructured news article into a dynamic interactive  
5 visualization of text and photos as an ActiveNews Article, comprising the steps of:  
6 reading an unstructured text article from a digital news feed;

7 storing text in the unstructured article  
8 detecting proper names in the stored text;  
9 consulting an external media directory to find images corresponding to detected names;  
10 generating an XML object containing the stored text, the proper names, and an image  
11 assigned to each section of an ActiveNews Article;  
12 creating one or more XSL style sheets that transforms an XML file into an appropriate  
13 input for generating a dynamic visualization of the ActiveNews Article;  
14 combining the XML file with the XSL style sheets to generate an HTML file; and  
15 using the HTML file as the input file to launch a Java applet that generates a dynamic  
16 visualization of the ActiveNews Article.

1 12. The method of Claim 11 further comprising the step of:

2 ranking by frequency of proper names with corresponding images.

1 13. The method of Claim 11 further comprising the step of:

2 determining, for each section of the ActiveNews Article, which image to assign to be  
3 prominent in the visualization.

1 14. The method of Claim 11 further comprising the step of:

2 saving the XML object as an XML file.

1 15. The method of Claim 11 further comprising:

2 using an XML enabler for combining XML files with XSL style sheets.

Add  
B17